U. S. DEPARTMENT OF COMMERCE NATIONAL BUREAU OF STANDARDS WASHINGTON Letter Circular LC-651 (Supersedes LC-504)

(June 4, 1941)

VARIETY REDUCTION EFFECTED BY THE APPLICATION OF SIMPLIFIED PRACTICE

Today, priorities are being invoked to conserve the supply of scarce materials and to relieve and forstall bottlenecks which would otherwise seriously jeopardize the whole National Defense Program. This does not necessarily mean that non-defense industries must be deprived entirely of the raw materials they need, but it, obviously, does mean that those industries will have to go on rations.

The rationed materials will have to be used wisely, in accordance with an efficient plan. It cannot be claimed either wise or efficient to fabricate any part of our scarce materials into varieties of products that are seldom demanded and which complicate the processes of manufacturing, swell inventories, and, worst of all, reduce the effective supply of materials. A prime purpose of simplification is to prevent these things.

If manufacturers, distributors, and consumers will work together, voluntarily, on simplification, the sense of deprivation can be lessened, even in the face of rationing, and the National Defense Program will be facilitated.

To illustrate achievements in the reduction of unnecessary variety, and, by example, to show the broad applicability of the procedure which has made them possible, there is presented herein for a selected list of commodities a comparison of the number of varieties produced under simplified practice with the number produced before simplified practice was applied.

Simplified practice means reduction of excessive variety of manufactured products, or of methods. Simplified Practice Recommendations are records of stock items retained after superfluous varieties have been eliminated. These recommendations are developed by voluntary cooperation among manufacturers, distributors consumers, and other interests, through a regular procedure of the National Bureau of Standards established for that purpose; a procedure designed to insure not only the initial success of a program.



but also its regular review, thereafter, and revision whenever, and as often as necessary, to meet changing industrial and economic conditions. 1/

The following brief notes suggest some of the more obvious advantages to be gained from a simplified practice program by the various participants.

TO THE MANUFACTUPER: Less capital tied up in slow-moving stocks; simplified inspection requirements; longer factory-runs with fewer changes; less idle equipment; less stock to handle; larger production-units; less special machinery; more prompt delivery; less chance of error in shipment; and less obsolescense in material and equipment.

TO THE JOBBER, WHOLESALER, AND RETAILER: Increased turnover; elimination of slow-moving stock; staple lines - easy to buy, and quick to sell; greater concentration of sales efforts on fewer items; decreased capital invested in new stocks and repair parts; less storage space required; and decreased overhead and handling charges.

TO THE CONSUMER: Better values than otherwise possible; better service in delivery and repairs; and better quality of products.

Simplification may be applied quickly, as an emergency measure, to insure the smooth speration of pricrities, rationing, conservation of materials, control of inventories, etc. Furthermore, when the present emergency is over, the established Simplified Practice Recommendations will tend to prevent a recurrence of the unnecessary multiplication of variety which occurred in the last post-war period, in some fields.

For further information regarding the complete list of effective Simplified Practice Recommendations, and a description of the procedure used in their development, write to the Division of Simplified Practice, Mational Bureau of Standards, Washington, D.C. In your request, please mention this Letter Circular.



VARIETY REDUCTION EFFECTIVE BY THE APPLICATION OF SIMPLIFIED PRACTICE

	Varieties			
ITEM	Before simplifi- cation	After simplifi- cation	% re- duc- tion	S.P.R.
Abrasive products, coated	8,000 102 845	1,755 11 384	78 89 54	89-40 4-36 158-37
Bags, glassinesizes. Bags, paper, grocers' Bags, paper, notion and millinerysizes Barrels, steel; and drumscapacities. Bars, steel, reinforcing Bars, steel, spiral, reinforcingsizes. (lengths Beds, hospital(widths (heights	124 61 188 66 32 7 33 34 44	26 47 22 26 11 4 1	79 23 88 61 66 43 97) 97)	107-31 42 129-41 20-28 26-30 53-32 24-37
Blackboard, composition (widths Blankets	3 18 90 78 718 244 130 2,328	2 . 3 . 5 .11 .10 .95 .13 .38	33) 83) 94) 86 99 61 90	75-29 11-36 81-28 44-36 8-29 157-37
(stock production sizes) Bolts, plow Books, compositionCounts (No. of leaves).	896 1,500 76	584 840 41	31 44 46	169-37 23 84-28
Bottles, carbonated beverage: (shapes Soda and imported (capacities ginger ale	15 78 16 11	12 12 6 8 3 3	20) 20) 92) 50) 73) 77)	123-30
(wt. of glass Beers, export, select (capacities or C.S(heights (wt. of glass Bottles, milk and cream, and bottle caps	18 8 18 18	3 2 2 4	78) 62) 89) 89) 92	.10
Boxes, corrugated and solid fiber, for canned fruits and vegetables	150	25.	83 turn	146-38 to page

				
	Va	rieties		
I tem	Before simplifi- cation	After simplifi- cation	re- duc- tion	S.P.R.
•				
Boxes, corrugated, for department and specialty store usesizes Boxes, folding, for department	322	61	gı	128-41
and specialty store usesizes Boxes, folding, one-nound for coffee Boxes, set-upsizes	262 100 1,084	23 · 2 75	88 98 93	127-41 64-30 126-41
Brick, common; and rough and smooth face brick	75 66	2 5 1	97	7 1-40
Brick, sand-lime	45 · 47	1 10 8	98 79) 76)	38-37 121-31
sizes for(thicknesses Brushes, paint and varnish	480	143	70	43-28
Cans, fruit and vegetable (names, dimensions capacities, and designated use)		39	80	155-40
Cans, tinned, steel, ice creamtypes and sizes Caps, bottle, milk and cream; and	14	5	64	164-36
milk and cream bottles	49	4	92	10
brick moldsmold sizes Cartridges, metallic Chain, welded	30 348 1,831	1 150 1,214	97 57 3 ¹	120-40 62-39 100-29
(grades Cardboard checks(widths (lengths	12 16	3 5 14	25) 58) 12)	113-30
Paper checks (grades (widths	7	8	43)	
Chinaware, cafeteria and restaurant Chinaware, dining car Chinaware, hospital Chinaware, hotel Cloth, screen, wire insect Containers (cans), fruit and vegetable,	700 700 700	309 345 345 253 154	56 51 51 63 57	33 39 40 5 122–31
(names, dimensions, capacities, and designated use)	200	39	80	155-40
Containers (cans), tinned, steel, ice creamtypes and sizes Containers, extracted honeysizes		5 10	64 85	164-36 156-37
Containers, glass; for cottage cheese and sour creamsizes	20	3	85	148-33

Vrieties				
Item	Before simplifi- cation	After simplifi- cation	re- duc- tion	3. P.R. No.
Containers, glass, for mayonnaise and kindred productscapacities Containers, glass, for (preserve jars preserves, jellies, (jelly glasses and apple butter (apple butter jars (cups Cups, ice cream; and cup caps (caps	25 6 16	59 7 456	80 77) 72) 33) 69) 60)	131-35 91-32 132-36
Drums, steel; and barrelscapacities Duck, cotton		2 6 94	61 80	20-28 2 7 -36
Fencing, woven-wire; and woven-(styles wire fence packages (pkg. sizes Files and rasps	2,072	71 200 377	87) 90) 43	9-28 6-40
and ridge rolls varieties.	110	7 9	28	29-39
Fittings, wrought iron and wrought steel, and pipe and valvespipe sizes Flashlight cases, metal and fiber Fungicides and insecticides		48 7	2 ¹ 4 72	5 7-3 2 68-33
(package sizes)	38	25	34	41-40
Galvanized-ware, tinware and Japanned ware Gauze, surgical	70 16	873 29 5	24 59 69) 31)	55. 86-3 7 112-29
Hammers, forged		180 118	53 5 1	159-37 160-37
Insecticides and fungicides (package sizes)	38	25	314	41-40
and artificial stone, (plaster. packaging of(investment. Insulators, porcelain, one-piece	. 26	3 13 210	86)) 50) 23	1 1 7-30 73
Jacks, screw, bell-bottomsizes. Japanned ware, tinware, and galvanized ware.	78 1,15 ¹ 4	38 873	51 24	9 7–30 55

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****	Varieties			
Item	Before simplifi- cation	After simplifi- cation	re- duc- tion	S.P.R. No.
Lath, metal (expanded and sheet) Lights; sidewalk, floor (sizes. and roof (styles. (shapes. Lining, brake, automobile Lockers, steel (lengths. wire-bound boxes (thicknesses.	120 80 10 100 65 102 65	29 6 5 2 37 23 6 6	76 95) 94) 80) 63 64 94) 91)	. 3-36 49 66 35-28 59
Millboard, asbestos; and (paper. asbestos paper	21 7	20 5 . 4	72) 76) 43	19-37 137-32 120-40
Nails, cut, small, and (sizes.cut tacks (packages.		185 127	57) 70)	47-28
Packages, saltpackages	71	38	46	70
Packaging of dental plaster, investment, and artificial (plaster. stone	22 26 38 552 2,072 72 21	3 13 25 71 200 20 5 62	86) 50) 34 87) 90) 72) 76)	117-30 41-40 9-28 19-37 98-36
fittingspipe sizes	62.	48	24	57-32
Pipe, conductor; and eaves trough; and fittings and ridge rollsvarieties Plaster, adhesive	_	79 1 5	28	29 - 39 85 - 37
and artificial stone, (plaster packaging of(investment	26	3 13	86) 50)	117-30
Radiators, large-tube, cast iron	661 188	17 377 25	49 43 87	174-40 6-40 79-28
ona 11001162	•	79 lease turn	,	

	Varieties			
		I	%	
Item	Before implifi-	After simplifi-	re-	S.F.R.
	cation	cation	duc-	
				# A A A
Roofing, iron and steel	75 535	1.73 11	39 7 4	78-28 138-32
3,			•	-, , , ,
Sccops, shovels and spaces (lst revision)		1,161	77	'μ2
Screen cloth, insect, wire		154 262	57 911	122-31 31-39
Shovels, spades and scoops (1st revision)		1,161	77	1/8
Slate, blackboard	25 1	.25	90	15-35
Slate, roofingpossible sizes		309	75 81	17.28
Slate, structural		118 1,161	77	13-28 48
Spirals, steel, reinforcing sizes		4	43	53-32
Spools, metal, for annualing,	a		05	(7
handling, and shipping wire		2 0 9	25 87	63 28-29
Stone, artificial, dental;	2,000	2.07		20 25
plaster and investment, (plaster	55	3 1 3	86)	117-30
packaging of(investment Sweeps, floorblock lengths	26	1.5	50)	88-37
Sweeps, 1100r	7.2)0	10-0
Tacks, cut, and small (sizes		1.85	57)	47-28
cut nails (pachages,.		127	70)	,
Tags, shipping, papersizes Tanks, expansion; and range boilers	16 130	13	50 90	93 → 39 8 – 29
Tanks, storage, hot				
waterdimensions and capacities	150	1)+	38	25
Tape, sealing, paper, No. 1 kraftweights of paper	g	3	62	114-30
Ternes, roofing	l .	936	22	30-37
Textiles, cotton, hospital	1			7), 70
and institutional	454 36	26 22	94	74 <u>−</u> 30
Tinware, galvanized, and Japanned ware	-	873	39 24	55
Tools, forged	665	503	5/1	17-35
Towels, terry, fast selvagesizes	1	6	92	119-31
Traps, lavatory and sink, brass Trough, eaves; and conductor pinc;	1,114	76	93	CI
and fittings and ridge rollsvarieties	110	7 9	28	29-39
Turnbucklessizes	5/18	115	54	71-28
Twines, hard-fiber (ply and yarn goods)	1,304	1,176	10	92-38
Units, building, concrete	<u> </u>	22	51	32-38
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	Varieties			
Item	Before simplifi- cation	After simplifi→ cation	% re- duc- tion	S. P. R. No.
Valves, wrought-iron and wrought-steel; and pipe and fittingspipe sizes	62	7+8	24	5 7- 32
Wheelbarrows Wheels, brush, dental Wheels, buffing, full disk, stock diameters. Wheels, grinding Wheels, grinding, dental lathe	50 17 715,200	27 10 11 254,100 10	78 80 35 64 89	105-32 116-30 115-30 45-39 130-32

(End)